

## STAT 201: Statistics for Business & Economics

**Instructor: Rishi Nigam**

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**Pre-requisite:** A grade of C- or better in STAT 200

**Office Hours:** Tue 3:00pm-4:00pm, MS219

Thr 5:30pm- 6:45pm

(Please make an appointment)

**Class meets:** Tue in MS216 from 4:00pm to 06:45pm

**Textbook: *Discovering*** Statistics for Business & Economics by Anderson, Sweeney, and Williams

**Topics:**

Inferences about Means, Proportions, and variances (Chapters 10 - 11)	
Test of Goodness of Fit and Independence	(Chapters 12)
Experimental Design & ANOVA	(Chapters 13)
Linear & Multiple Regressions	(Chapters 14 – 15)
Nonparametric Methods	(Chapter 19)

**Course Description:**

Application of statistical methods used for a description and analysis of business problems. The development of analytical skills is enhanced by use of one of the widely available statistical packages. Topics include hypothesis testing, linear and multiple regression and correlation analysis, residual analysis, variable selection techniques, analysis of variance, design of experiments, goodness of fit, test of independence.

**Calculator Use:** TI-83+ or TI- 84. You will need it for solving problems in the class and examinations. The text book has illustrations of its usage.

**Use of EXCEL:** Class projects will be done using Microsoft EXCEL.

**Grading Policy:**

2 EXCEL Projects	20 points
Exam-I, Exam-III @ 20 points	40 points.
Midterm Exam	20 points
Final (comprehensive)	20 points

**Final Exam on December 14, 2010 from 4:00pm to 6:00pm**

- **No make-up exam will be given.**

**Evaluation:**

Minimum averages are:

A 93%, A- 90%, B+ 87%, B 83%, B- 80%, C+ 77%, C 73%, C- 70%, D+ 67%, D 63%, D- 60%

**Course Requirements:**

Attend and participate in class regularly; complete homework assignments; take quizzes and tests as scheduled. A general rule for any college course is that you are expected to put in at least 2 hours of work outside of class for every hour in class.

**Attendance Policy:**

It is advised that you attend every class. You will be held responsible to make-up of the course material covered in your absence.

**Important Dates:**

Last day to drop a course is Sept 27, 2010. Please consult your Academic Advisor Prior to deciding to withdraw. After Sept 27, withdrawals are allowed only under extenuating Circumstances and require approval from instructor, department chair and dean of the School of Arts and Sciences.

**Cell Phones Etc:**

Must be turned off at all times during class.

**Disability Statement:**

Please contact me privately to discuss your specific needs if you believe you need special course accommodations based on the impact of a disability, medical condition, or if you have emergency medical treatment to share. I will need a copy of the accommodation letter from Student Disability Services in order to arrange your class accommodations. Contact Student Disability Services room 241 Copernicus Hall, if you are not already registered with them. Student Disability Services maintains the confidential document of your disability and assists you in coordinating reasonable accommodations with your faculty.

**Sample Policy Statement on Academic Misconduct**

All students are expected to demonstrate integrity in the completion of their coursework. Academic integrity means doing one's own work and giving proper credit to the work and ideas of others. It is the responsibility of each student to become familiar with what constitutes academic dishonesty and plagiarism and to avoid all forms of cheating and plagiarism. Students who engage in plagiarism and other forms of academic misconduct will face academic and possibly disciplinary consequences. Academic sanctions can range from a reduced grade for the assignment to a failing grade for the course. From a disciplinary standpoint, an Academic Misconduct Report may be filed and a Faculty Hearing Board may impose sanctions such as probation, suspension or expulsion.

**University Policies:**

1. You must take the final examination at the time specified in the course selection book.
2. If you need course adaptations or accommodations because of disability, if you have emergency medical information to share with me, or if you need

special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible.

3. I will need a copy of the accommodation letter from Student Disability Services in order to arrange your class accommodations.
4. In the event of a weather emergency which requires curtailment or cancellation of classes, listen to WTIC (1080 AM) or call (860) 832-3333 for the general snow message.
5. The last day to withdraw from a course is Sept 27, 2010. Approvals for withdrawal are not required; however, it is strongly recommended that students consult with their academic advisors prior to deciding to withdraw. Cessation of attendance, notice to the instructor, or telephone calls to the Enrollment Center are not considered official notice of student's intention to drop the course. After Sept 27, 2010, withdrawals are allowed only under extenuating circumstances and require approval of the course instructor, department chair and dean of the School of Arts and Sciences. Poor academic performance is not considered an extenuating circumstance.
6. You are responsible for understanding and abiding by the University's policy on academic integrity. Information on the policy may be found at <http://www.ccsu.edu/AcademicIntegrity/>. This policy is rigorously enforced by the Department of Mathematical Sciences.

***Resources Available:***

1. If you need help, take advantage of your instructor's office hours. Do not wait until just before the first test to do so.
2. The Learning Center is located in Room 241, Copernicus. Free tutoring is available in Room 242, Copernicus and at other locations on campus. A schedule for hours the center is open will be posted soon after the beginning of the semester.
3. Form a study group with other students in your section. Explaining solutions to homework problems to each other is a good way to learn.
4. A list of private tutors for hire is available in the Mathematical Sciences Department Office, Room 107 Marcus White, (860)832-2835.

***Tentative Schedule:***

<b><i>Week</i></b>	<b><i>Material Covered</i></b>	<b><i>Reading</i></b>
1 <sup>st</sup> Aug 31	Inferences about Mean & Proportions of two populations	Chapter 10
2 <sup>nd</sup> Sep 7	contd..	
3 <sup>rd</sup> Sep 14	Inferences above Variances	Chapter 11
4 <sup>th</sup> Sep 21	Contd. <b>Exam-1 (Sep 23, 2010)</b>	
5 <sup>th</sup> Sep 28	Tests of Goodness of Fit & Independence	Chapter 12
6 <sup>th</sup> Oct 5	Contd.	
7 <sup>th</sup> Oct 12	Experimental Design and Analysis of Variance	Chapter 13
8 <sup>th</sup> Oct 19	contd. <b>Exam-II Midterm (Oct 21, 2010)</b>	
9 <sup>th</sup> Oct 26	Simple Linear Regression	Chapter 14
10 <sup>th</sup> Nov 2	Contd.	
11 <sup>th</sup> Nov 9	Multiple Regression	Chapter 15
12 <sup>th</sup> Nov 16	Contd. <b>Exam-III (Nov 18, 2010)</b>	
13 <sup>th</sup> Nov 23	Nonparametric methods	Chapter 19
14 <sup>th</sup> Nov 30	contd.	
15 <sup>th</sup> Dec 7	Review for Final	

**Final Exam December 14, 2010 at 4:00pm – 6:00pm**